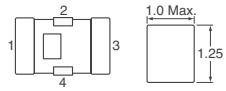
TDK

Multilayer RF Filters DEA Series - Surface Mount

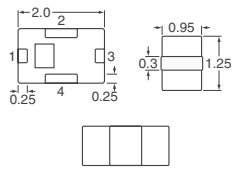
Dimensions in mm

Fig. 1



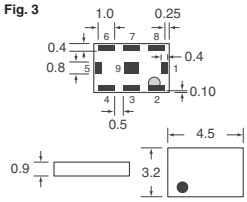
Pin Configuration	
1	GND
2	IN (OUT)
3	GND
4	OUT (IN)

Fig. 2



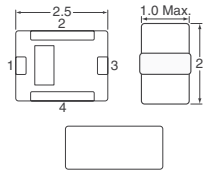
Pin Configuration	
1	IN
2	GND
3	OUT
4	GND

Fig. 3



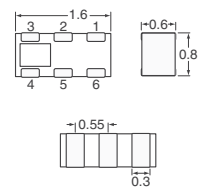
Pin Configuration	
1	I/O
2 ~ 4	GND
5	I/O
6 ~ 9	GND

Fig. 4



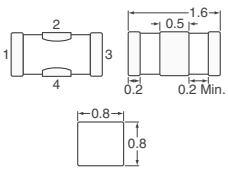
Pin Configuration	
1	IN
2	GND
3	OUT
4	GND

Fig. 5



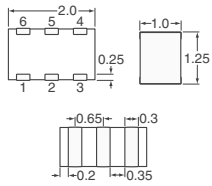
Pin Configuration			
1	GND	4	GND
2	IN	5	OUT
3	GND	6	GND

Fig. 6



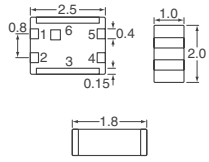
Pin Configuration	
1	IN
2	GND
3	OUT
4	GND

Fig. 7



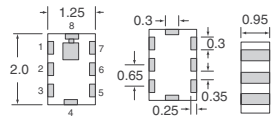
Pin Configuration			
1	GND	4	GND
2	IN	5	OUT
3	GND	6	GND

Fig. 8



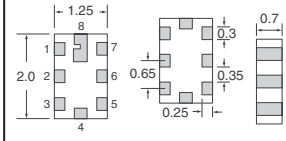
Pin Configuration	
1	Unbalanced
2	DC Feed or RF GND
3, 6	GND
4 ~ 5	Balanced

Fig. 9



Pin Configuration	
1	Unbalanced Port
2	DC Feed + RF GND or GND
3	NC
4, 6, 8	GND
5, 7	Balanced Port

Fig. 10



Pin Configuration	
1	Unbalanced Port
2	DC Feed
3	NC
4, 6, 8	GND
5, 7	Balanced Port

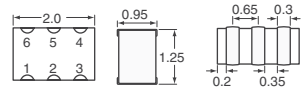
E

Fig.	Center Frequency (GHz)	Filter Type	Application	Maximum Insertion Loss (dB)	Minimum Return Loss (dB)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	TDK Part No.
1	2.450	Band Pass	Wideband-LAN and Bluetooth	2.3	9.0	445-3251-1-ND	1.87	1.60	1.32	445-3251-2-ND	2,000	562.65/M	DEA202450BT-1195A1
2	5.425	Band Pass	Wideband-LAN	2.0	9.0	445-3252-1-ND	1.87	1.60	1.32	445-3252-2-ND	2,000	562.65/M	DEA205425BT-2028A4
3	4.000	Band Pass	UWB	1.9	10	445-3388-1-ND	3.27	2.78	2.29	445-3388-2-ND	2,000	980.10/M	DEA453960BT-3002B1
	4.000	Band Pass	UWB	1.9	10	445-3389-1-ND	3.27	2.78	2.29	445-3389-2-ND	2,000	980.10/M	DEA453960BT-3007B1
4	2.400	Band Pass	Wideband-LAN and Bluetooth	3.0	10	445-3253-1-ND	2.00	1.70	1.40	445-3253-2-ND	2,000	598.95/M	DEA252450BT-2024C2
	2.400	Band Pass	Wideband-LAN and Bluetooth	1.2	10	445-3254-1-ND	2.00	1.70	1.40	445-3254-2-ND	2,000	598.95/M	DEA252450BT-2027A1
	2.400	Band Pass	Wideband-LAN and Bluetooth	1.4	10	445-3255-1-ND	2.00	1.70	1.40	445-3255-2-ND	2,000	598.95/M	DEA252400BT-2030A1
5	2.450	Low Pass	Wideband-LAN and Bluetooth	.42	14	445-3257-1-ND	1.82	1.55	1.28	445-3257-2-ND	4,000	526.35/M	DEA162500LT-1212A1
	2.450	Low Pass	Wideband-LAN and Bluetooth	.48	14	445-3258-1-ND	1.82	1.55	1.28	445-3258-2-ND	4,000	526.35/M	DEA162500LT-1217A1
6	5.425	Low Pass	Wideband-LAN	.70	12	445-3259-1-ND	1.82	1.55	1.28	445-3259-2-ND	4,000	526.35/M	DEA165850LT-1197B2
7	2.400	High Pass	Wideband-LAN and Bluetooth	.80	—	445-3260-1-ND	1.87	1.60	1.32	445-3260-2-ND	2,000	562.65/M	DEA202484HT-8002A1
8	2.450	Band Pass	Wideband-LAN and Bluetooth	3.0	—	445-3256-1-ND	2.78	2.37	1.95	445-3256-2-ND	2,000	834.90/M	DEA252450BT-7022B1
	2.450	Band Pass	Bluetooth	3.6	8	445-3381-1-ND	2.39	2.03	1.67	445-3381-2-ND	2,000	715.84/M	DEA252450BT-7035B2
	2.450	Band Pass	Bluetooth	3.0	8	445-3382-1-ND	2.39	2.03	1.67	445-3382-2-ND	2,000	715.84/M	DEA252450BT-7046A1
9	2.450	Band Pass	Wideband-LAN and Bluetooth	3.5	9	445-3383-1-ND	2.13	1.81	1.49	445-3383-2-ND	2,000	638.16/M	DEA202450BT-7077A1
10	2.440	Band Pass	Bluetooth	5.0	10	445-3384-1-ND	2.13	1.81	1.49	445-3384-2-ND	2,000	638.16/M	DEA202450BT-7041E1

Multilayer Diplexers DPX Series - Surface Mount

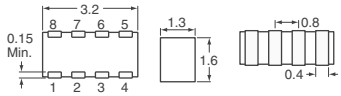
Dimensions in mm

Fig. 1



Terminal Functions	
1	GND
2	ANT (Common)
3	GND
4	HIGH (5.0 GHz)
5	GND
6	LOW (2.4 GHz)

Fig. 2



A

Terminal Functions	
1	LOW (2.4 GHz)
2	GND
3	GND
4	HIGH (5.0 GHz)
5	GND
6	GND
7	ANT (Common)
8	GND

B

Terminal Functions	
1	HIGH (5.0 GHz)
2	GND
3	GND
4	LOW (2.4 GHz)
5	GND
6	ANT (Common
7	GND
8	GND

Fig.	High Frequency (GHz)	Low Frequency (GHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 2,000	TDK Part No.
1	4.0	2.4	445-3390-1-ND	2.90	2.47	2.04	445-3390-2-ND	871.20/M	DPX204752DT-4028A1
1	5.0	2.4	445-3261-1-ND	2.00	1.70	1.40	445-3261-2-ND	598.95/M	DPX205950DT-9008A1
2A	5.0	2.4	445-3262-1-ND	2.78	2.37	1.95	445-3262-2-ND	834.90/M	DPX315950DT-5006C1
2B	5.0	2.4	445-3263-1-ND	2.78	2.37	1.95	445-3263-2-ND	834.90/M	DPX315950DT-5005B2

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